

WHAT IS CLAIMED IS:

1. A composition for improved compatibility comprising (a) a
5 matrix material of about 50% to 90% by weight of an aromatic polyester;
(b) about 5% to 30% by weight of a mineral filler and (c) about 10% to
20% by weight of an elastomer.
2. A composition according to claim 1, wherein said aromatic
10 polyester is selected from the group consisting of polybutylene
terephthalate (PBT), polyethylene terephthalate (PET), and polypropylene
terephthalate (PPT).
3. A composition according to claim 1 or 2, wherein the
15 elastomer comprises thermoplastic polyurethane (TPU), polyether
polyester thermoplastic or soft ethylenic polymers.
4. A composition according to claim 3, wherein the soft
ethylenic polymers comprises an ethylene vinyl acetate (EVA), ethylene
20 methyl acrylate (EMA), ethylene butyl acrylate carbon monoxide (EBACO),
ethylene vinyl acetate carbon monoxide (EVACO), ethylene butyl acrylate
glycidolmethacrylate (EBAGMA) or other soft ethylenic polymers.
5. A composition according to claim 3, wherein the soft
25 ethylenic polymers are copolymers, terpolymers or tetrapolymers.
6. A composition according to claim 1, wherein the mineral filler
is selected from the group consisting of calcium carbonate (CaCO_3),
oxides, sulfates, titanates, kaolin clay, silicates, magnesium hydroxide,
30 carbon black and combinations thereof.
7. A composition according to claim 6, wherein the oxides are
selected from the group consisting of aluminum oxides, silicon oxides, and
titanium dioxide (TiO_2).
8. A composition according to claim 6, wherein the sulfates are
barium sulfates.

9. A composition according to claim 6, wherein the mineral filler is preferably CaCO_3 .

10. A composition according to claim 7, wherein the mineral filler is preferably TiO_2 .

11. A composition according to claim 1, wherein the matrix material is a homopolymer.

12. A composition according to claim 6, wherein said mineral filler contains a coating, said coating being a non-aromatic organic acid, a salt, ester, ether, epoxy, or a mixture thereof.

13. A composition for improved compatibility comprising an aromatic polyester matrix material with about 5% to less than 30%, by weight of a mineral filler, the filler having an average equivalent spherical diameter in the range of 0.05 to less than 4 micrometers, said mineral filler being present in a ratio of about 0.5X to less than 1.5 X by weight of the elastomer, the elastomer being in a ratio to the matrix resin of about 5 to 20% by weight.

14. A composition according to claim 13, wherein said aromatic polyester is selected from the group consisting of polybutylene terephthalate (PBT), polyethylene terephthalate (PET), and polypropylene terephthalate (PPT).

15. A composition according to claim 13, wherein the elastomer comprises thermoplastic polyurethane (TPU), polyether polyester thermoplastic or soft ethylenic polymers.

16. A composition according to claim 1, wherein the mineral filler is selected from the group consisting of calcium carbonate (CaCO_3), oxides, sulfates, titanates, kaolin clay, silicates, magnesium hydroxide, carbon black and combinations thereof.

17. A composition according to claim 16, wherein the oxides are selected from the group consisting of aluminum oxides, silicon oxides, and titanium dioxide (TiO_2).

18. A composition according to claim 13 or 16, wherein the mineral filler having a coating of a non-aromatic organic acid, a salt, ester, ether, epoxy, or a mixture thereof, at a concentration of at least 1% by weight of the mineral filler.

19. A composition for according to claim 1, wherein said aromatic polyester is about 75 % to 90% by weight; said mineral filler is about 5% to less than 15% by weight of mineral filler and said elastomer is about 10% by weight.

20. An article made from a composition according to one of claims 1-19.

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